



# SODIUM

UN 1428

Shipping Name: Sodium

Other Names: Natrium



**WARNING!** • DO NOT USE WATER! REACTS VIOLENTLY TO FORM HIGHLY FLAMMABLE AND EXPLOSIVE HYDROGEN GAS!  
• HIGHLY FLAMMABLE! WHEN HEATED IGNITES SPONTANEOUSLY IN AIR!  
• MAY REACT VIOLENTLY WITH CARBON DIOXIDE OR HALOGENATED EXTINGUISHING AGENTS!

## Hazards:

- Skin and eye contact causes severe burns and blindness
- Fumes from burning material are extremely irritating to skin, eyes nose and lungs
- Container may explode when exposed to fire

## Awareness and Operational Level Training

### Response:

- Do not put yourself in danger by entering a contaminated area to rescue a victim
- Stay upwind
- Determine the extent of the problem
- Isolate the area of release or fire and deny entry
- Remove all ignition sources
- For container exposed to fire evacuate the area in all directions because of the risk of explosion
- Evacuate the immediate area and downwind for a large release
- Notify local health and fire officials and pollution control agencies
- If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated water

## Description:

- Silvery-white solid
- Shipped or stored under an inert gas or mineral oil
- No odor
- Floats on the surface of water and reacts violently with water producing flammable and explosive hydrogen gas
- Highly flammable

## Operational Level Training Response:

### RELEASE, NO FIRE:

- DO NOT USE WATER DIRECTLY ON MATERIAL - reacts with water to form highly flammable hydrogen gas
- Prevent contaminated runoff from entering sewers and waterways if it can be done safely well ahead of the release

### FIRE:

- APPROACH FIRE WITH EXTREME CAUTION; consider letting fire burn
- Do not allow water to come in contact with the material; if material is on fire, use graphite, Class D extinguisher, soda ash or inert powder to extinguish
- If material is not leaking, cool exposed containers with large quantities of water from unattended equipment or remove intact containers if it can be done safely
- If cooling streams are ineffective (unvented container distorts, bulges or shows any other signs of expanding), withdraw immediately to a secure location

## First Aid:

- Do not put yourself in danger by entering a contaminated area to rescue a victim
- Provide Basic Life Support/CPR as needed
- Decontaminate the victim as follows:
  - ♦ Inhalation - remove the victim to fresh air and give oxygen if available
  - ♦ Skin - remove and isolate contaminated clothing (including shoes) and wash skin with soap and large volumes of water for 15 minutes
  - ♦ Eye - rinse eyes with large volumes of water or saline for 15 minutes
  - ♦ Swallowed - do not make the victim vomit
- Seek medical attention
- For skin burns decontaminate with water and apply a clean dry dressing

CAS: 7440-23-5